QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	37.33	8	8
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 sets /31-100 cum	90.24	10	10

BBMP-01 A.E.E

AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
CIVIL PRO
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TP/01

Lab ID : CP-2023-04-24-27
Customer : Date: 29-12-22
Address : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Project Name : Yelahanka Sub Division, BBMP, Bangalore
Agency : "Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Customer's Reference : Sri. Sambashiva, No 04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Source of Sample : BBMP/EE/YNK D/EPMT-12/W.O/ /2022-23
Sample Condition : Sample supplied by Agency
Date of Receipt : Satisfactory
Sample Type : 26-12-22
Reference to BIS codes : Birla Super 53grade
: IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part-4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test : 27-12-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.14	
2	Fineness by Air permeability method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

29-01 Ra
A.E.E

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilprooxperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-24-27** **Date: 04/02/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	151.96 X 150.48 X 151.25	22868	8.170	537.3	23.5	23.3
2	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	149.01 X 150.77 X 151.47	22466	8.957	508.8	22.6	
3	Drain Bottom Raft Concrete	M20	07/01/2023	04/02/2023	150.02 X 150.52 X 150.02	22581	8.813	534.8	23.7	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

A.E.E

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/02/2023

Lab ID	:	**CP-2023-04-24-27**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.05 X 151.16 X 150.11	22531	8.356	575.5	25.5	25.4
2	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	151.31 X 151.92 X 151.39	22988	8.778	603.5	26.3	
3	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	150.83 X 149.90 X 151.38	22610	8.286	554.5	24.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

A.E.E

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/02/2023

Lab ID	:	CP-2023-04-24-27
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Srinivasapura Village in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/ /2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.08 X 149.70 X 149.45	22317	8.623	574.5	25.7	25.4
2	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	151.41 X 150.48 X 151.81	22785	8.301	605.7	26.6	
3	Cement Concrete Pavement	M30	28/01/2023	04/02/2023	149.30 X 150.78 X 149.56	22512	8.143	540.4	24.0	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

A.E.E

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES